



DIVYANSH CHANDRA

*Award-Winning Researcher | AI & Machine Learning
Enthusiast | Competitive Mathematician | Taekwondo Black
Belt | Passionate Flutist & Community Volunteer*



DIVYANSH CHANDRA

**Mathematical Olympiad Gold Medalist | Coding & Technological Innovator | Community Service Leader | Musician & Athlete |
Future STEM Professional**
Email | Singapore

ABOUT ME

Driven technologist and mathematics enthusiast with a commitment to excellence in academics and diverse passions. With a background in AI research, competitive mathematics, and programming, I combine analytical thinking with creative problem-solving. My experience ranges from publishing research on AI in finance to developing specialized applications and mentoring others. I'm passionate about leveraging technology for positive social impact while maintaining a balanced approach.

Key strengths include:

- Research and academic excellence with perfect scores in UKMT Senior Mathematics Challenge
- AI development experience culminating in published research on AI applications in finance
- Technical leadership in both programming projects and community service initiatives
- Strong mentoring abilities developed through Taekwondo coaching and educational outreach
- Cross-cultural understanding from global competitions and community service

PROFESSIONAL EXPERIENCE

Researcher

Research Paper Co-Author | With Dr. Mudasir Younis

MM. YY. - MM. YY.

- Authored "The Impact and Adoption of Artificial Intelligence in Finance and Economics: A Cross-Country Analysis"
- Conducted cross-country survey across India, Singapore, Pakistan, and Türkiye
- Employed Non-Metric Multidimensional Scaling (NMDS) for data analysis
- Paper accepted for publication in Journal of Mathematical Sciences (Springer) with submissions to Indian Journal of Pure and Applied Sciences, IRE, and International Journal of Multidisciplinary

Technology Developer

Women Safety App Project

MM. YY. - MM. YY.

- Designed and launched safety application with location tracking capabilities
- Implemented emergency contact system with live location sharing
- Created intuitive user interface for quick activation during emergencies

Chair of Electronic Outreach with Seniors

Lion Befrienders

MM. YY. - MM. YY.

- Led volunteer training sessions on integrating electronics into textiles
- Taught senior citizens to operate sewing machines and handle electronic equipment
- Developed curriculum for creating LED projects and interactive textiles

- Managed team of student volunteers in community education initiative

Taekwondo Instructor/Assistant Coach

MM. YY. – MM. YY.

- Taught junior students self-defense techniques and taekwondo fundamentals
- Helped break down complex movements into simpler steps for new learners
- Provided constructive feedback to help students improve technique and confidence
- Developed leadership, patience, and communication skills through teaching

EDUCATION

IGCSE Exams

- Additional Mathematics (0606)
- Cambridge International Mathematics (0607)
- Co-ordinated Sciences (Double Award) (0654)
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- Design and Technology (0445)
- Enterprise (0454)
- First Language English (0500)
- World Literature (0408)

International General Certificate of Secondary Education (IGCSE)

- Achieved 8A* out of 8 subjects taken
- Subjects: Additional Mathematics, Cambridge International Mathematics, Co-ordinated Sciences (Double Award), Design and Technology, Enterprise, First Language English, World Literature

Inspirit AI Program

- Intensive AI education program developed by Stanford and MIT graduates
- Developed advanced Natural Language Processing model for stock market sentiment analysis
- Built model to predict buy/sell/hold decisions based on social media sentiment
- Gained hands-on experience with data processing, model optimization, and validation

Certifications:

- Second Degree Black Belt (Dan 2) in Taekwondo
- Grade 6 in Carnatic Flute

VOLUNTEERING

RO System in Rajasthan

- Personally funded installation of Reverse Osmosis Water Filtration Plant (₹25,000)
- Provided clean drinking water access for 270 students and teachers
- Identified health risks from unfiltered water during school visit
- Used personal savings earned through flute performances

Christian Outreach for the Handicapped (COH) Volunteer

- Provided care and support for residents with disabilities
- Taught skills and facilitated activities for residents
- Gained perspective on challenges faced by people with disabilities

Willing Hearts Volunteer

- Assisted at Singapore's leading soup kitchen charity
- Prepared meals for migrant workers and marginalized communities
- Performed food preparation, cleaning, and distribution tasks

Coding for Good Service

- Developed temperature and pH monitoring system for aquarium management
- Implemented automated alert systems for maintenance needs

- Applied programming skills in Python, Java, HTML, and CSS
- Combined coding knowledge with circuitry expertise from Design & Technology studies

ORGANIZATIONS

TED-ED Club Member (since Grade 9)

- Delivered two TED Talks: one on mental health and one on AI research
- Developed speech writing and delivery skills
- Gained confidence speaking in front of large audiences
- Participated in impromptu speaking activities

Maths Circle

- Explored daily applications of mathematics beyond school curriculum
- Developed Olympiad problem-solving skills
- Studied advanced mathematical concepts to prepare for competitions
- Deepened appreciation for mathematics through complex problem-solving

Chess Club

- Solved puzzles and participated in friendly competitions
- Studied chess strategies through video lessons
- Developed critical thinking and strategic planning skills

Badminton Team

- Member of school's ACSIS A team since Grade 8
- Developed teamwork and sportsmanship
- Encouraged teammates to excel in competitive matches

Taekwondo (practicing since age 5-6)

- Second Degree Black Belt (Dan 2)
- Instructed junior students in technique and self-defense
- Currently training for Kyorugi (sparring) tournaments
- Developed discipline, physical fitness, and leadership skills

ACTIVITIES AND INTEREST

Sports:

- Basketball Boys U19D Team (Grade 9)
- 19U C Badminton Boys Team (Grade 9)
- HS Mixed Badminton (Grades 8-10)
- MS Cricket 14&U Team (Grades 7-8)
- Dragons Basketball Team 14&U B Boys (Grades 6-7)
- MS Cricket Team 12&U A Boys (Grade 6)
- MS Basketball Team 12&U A Boys (Grade 6)
- MS Badminton Team 12&U A Boys (Grade 6)

Clubs & Organizations:

- Maths Circle (Grades 9-10)
- TEDEd Club (Grades 9-10)
- Chess Club (Grades 9-10)
- Competition Maths Club (Grades 9-10)
- Investment Society (Grade 9)
- Video Game Development (Grade 8)
- Coding for all (Grade 8)
- MS Electronics Club (Grade 7)
- MS Radical Maths (Grade 7)
- MS Writers Club (Grades 6-7)
- MS Table Tennis (Grades 6-8)

- MS For the Love of Books (Grade 6)
- MS Board and Card Games (Grade 6)

AWARDS

Music & Performing Arts:

- Winner (Flute), Yuvajanotsavam 2017 – Singapore Malayalee Hindu Samajam, Singapore
- 1st Prize, Papanasam Sivan Songs Competition 2019 – Sivan Fine Arts Academy, Singapore
- Participation Prize, Papanasam Sivan Songs Competition 2021 – Sivan Fine Arts Academy, Singapore

Carnatic Flute Certifications:

- Year 1 with Distinction (2017)
- Year 2 with Higher Distinction (2018)
- Year 3 with Higher Distinction (2018)
- Year 4 with Higher Distinction (2019)
- Advanced Level 1 to Advanced Level 2 Graduation (2020)

Mathematics & Science Competitions:

- Gold Medalist, UKMT (United Kingdom Mathematics Trust) 2023
- Gold Medalist, CEMC (Centre for Education in Mathematics and Computing) 2023
- 2nd Place, American Mathematics Competition 8 (AMC 8) 2020
- Silver Award, American Mathematics Olympiad 2020
- Bronze Award, American Mathematics Olympiad 2018
- Silver Certificate, Junior Mathematical Challenge 2019
- Bronze Award, SASMO (Singapore and Asian Schools Math Olympiad) 2019
- Certificate of Excellence, SOF International Mathematics Olympiad 2017
- Certificate of Excellence, SOF International English Olympiad 2017
- Certificate of Merit, SOF International Mathematics Olympiad 2016, 2017
- Certificate of Merit, SOF International English Olympiad 2015, 2016, 2017
- Distinction, UNSW ICAS Mathematics 2017
- High Distinction, UNSW ICAS Science 2017
- Participant, BMO Round 1 (British Mathematical Olympiad) 2023

Academic Excellence:

- 1st Place, Smartest Singapore Literacy and Numeracy Challenge 2014
- Runner-Up, Smartest Singapore Literacy and Numeracy Challenge 2015
- Principal's Commendation for Academic Excellence & Contributions (Total of 18 times, 2013-2017)

Sports & Athletics:

- Community Basketball League U11 Boys Division 2 – Silver Medalist (2017)
- Athletic Conference of Singapore International Schools (ACSIS):
- 3rd Place, 11U Badminton Boys Division 2 (2017-18)
- 2nd Place, 11U Cricket Boys Division 2 (2017-18)
- 2nd Place, 10x50m Relay Race (2014-15)
- Participation, Sports Day (2013)
- Swim Safer Stage 1 & 2 Awards (2016)
- 1st Poom Graduation, Singapore Taekwondo Federation (2016)
- 2nd Poom Graduation, Singapore Taekwondo Federation (2017)

Arts & Community Engagement:

- Certificate of Appreciation, Hindu Center Children's Art Competition (2014, 2015)
- Certificate of Appreciation, 'Keep Wildlife Wild' Art Exhibition (2015)
- Certificate of Appreciation, Rajasthan Government (Donation of Reverse Osmosis Water Filtration Plant)
- 1st Place, Traditional Costume Competition (2015)
- 1st Place, Spelling Bee Competition (2014)
- Participation, Spelling Bee Competition (2015-16)

SKILLS

- Programming: Python, Java, HTML, CSS
- Mathematics: Olympiad-level problem solving
- Research: Data analysis, survey methodology
- AI/Machine Learning: Natural Language Processing, sentiment analysis
- Leadership: Team management, training, mentoring
- Public Speaking: TED Talk delivery, presentation skills
- Music: Carnatic flute performance (Grade 6)
- Sports: Taekwondo, Badminton